

VISUAL SATELLITE OBSERVATIONS FROM SATELLITE STATION STADE

Horst Köhnke

Translation of "Visuelle Satellitenbeobachtungen durchgeführt
von der Satellitenstation Stade"

SAO No.: 0708, Cospar Station No. 2567
216 Stade/Elbe, Thuner St. 98a, W. Germany

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Visual Satellite Observations from Satellite Station Stade (Horst Köhnke, 216
Stade/Elbe, Thuner St. 98a, Western Germany).

Coordinates $53^{\circ} 35' 20''$ N

$350^{\circ} 32' 24''$ W

Altitude above normal 0: 7.5 m

SAO No.: 0708

VA = Variations in Brightness

Date Rev. No.	Object satellite	Time GMT	Brightness magnitude	Altitude km	Light change tumbling
5/19/65	1963-43 A	21.17/21.18-	+ 7.5	800-850	Steady, weak
7.957	Pol ^e jet 1	21.20, W-E, in N $50-55^{\circ}$			VA
5/19/65	1) 1965-27 A	21.26-21.31,	65-27 A =		Flashing
594	2) 1965-27 C	S-N in E 70°	rocket ?	1.290	period:
	SNAP 10 A	high	mag. + 3 -		4.5 sec
	3) 1965-27 D?		+ 6		
	fragment		65-27 C ?		
			SNAP 10 A	1.290	Steady
All three objects close together			max + 3		
			65-27 D ?		Flashing
			fragment	1.290	period:
			flash: + 6		5.8 sec
5/19/65	1965-31 B	21.54, S-N, in	+ 8 - + 8.5		Steady, oc-
318		E 35° high		541	casional
					VA

Date Rev. No.	Object satellite	Time GMT	Brightness magnitude	Altitude km	Light change tumbling
5/19/65	1965-20 D	22.00-22.04,	+ 5 - + 6	1.300 -	Steady, slow
?	rocket of Kosmos 61, 62, 63	W-E, in N 75°		1.400	tumbling
5/19/65	1963-43 D	23.14-23.15,	+ 7	980	Steady, weak
8.084	fragment Poljet 1 ^e	W-E, transit near zenith			VA
5/19/65	1964-6 A	23.20-23.22,	+ 6.0 - + 6.5	about 900	Steady, fre-
4.045	Elektron 1	NW-SE, in SW 50-55°		km	quent VA
5/19/65	1965-17 C	00.10-00.13,	+ 3.5 - + 4.0	600 km	Flare,
5/20/65	Obj. 1228	N-S, in E 60- 65°			tumbling = 0.5 sec
5/20/65	1) 1965-27 A	21.34-21.38,	1965-27 A		
607	rocket ?	S-N, in E	rocket ?	1.290	Flashing
	2) 1965-27 C?	80-85°	+ 3 - + 6		
	SNAP 10 A		2) 1965-27 C		
	3) 1965-27 D?		SNAP 10 A		Steady
	fragment		+ 4 - + 5		
			3) 1965-27 D?		
	All objects rather close together		fragment	+ 6 - + 7.5	Flashing
5/20/65	1965-20 D	22.13-22.14,			Steady, slow
?	rocket of Kosmos 61, 62, 63	W-E, in N 75-80°	+ 7	1.300	tumbling

Date Rev. No.	Object satellite	Time GMT	Brightness magnitude	Altitude km	Light change tumbling
5/20/65	1965-27 A	23.31-23.32,			
608	1965-27 C?	S-N, in NW	see observation on 5/20/65		
	SNAP 10 A	25-30°	Rev. No. 607		
	and fragment				
	1965-27 D?				
5/20/65	unknown	23.37-23.38,			
?	?	W-E, in S	+ 6	?	Steady
		50°			
5/22/65	1965-30 C =	21.41-21.42,	Flash =	215 km	Flashing,
458	rocket of	SW-NE, at	max. mag.		period:
	Molniya 1	zenith	+ 1 - + 2		6.1 sec
	brightness decreases to + 7 mag.				
5/22/65	1965-30 B	21.45-21.46,	+ 4 - + 5	205 - 210	
456	fragment of	SW-NE, at		km	Steady
	Molniya 1	zenith			
5/22/65	1965-27 A	21.56-22.05,	1965-27 A		
633	2) 1965-27 C =	S-N, in W	rocket ?	1.290	Flashing
	SNAP 10 A	70-75°	+ 3 - + 4		
	3) 1965-27 D?		flash		
	fragment		1965-27 C =		Steady,
			SNAP 10 A	1.290	possibly slow
			+ 4.5 - oo		tumbling
			1965-27 D?		
			fragment	1.290	Flashing
			+ 6.5		
			flash		

Date Rev. No.	Object satellite	Time GMT	Brightness magnitude	Altitude km	Light change tumbling
5/22/65 25.442	1960 Eta 1 Transit 2 A	22.17-22.19 SW-NE, in SE 85°	+ 7 - + 7.5	645 km	Steady, oc- casional weak lightning
5/22/65 12.867	1962 Beta- Psi 1 Transit 5 A	22.32-22.33, S-N, in E 50°	+ 7 - + 8	732	Steady
5/22/65 ?	1965-20 D = rocket of Kosmos 61, 62, 63	22.32-22.34, W-E, transit near zenith	+ 5 - + 5.5	1.300 km	Steady, slow tumbling?
5/22/65 1.066	1965-17 C	23.52-23.53:50, + 4 N-S, in E 40°		600 km	Flare, tumbling 0.4 - 0.5 sec
5/23/65	Possibly 1962 Alpha- Alpha 2 rocket of Tiros 5, or 1963-24 B = rocket of Tiros 7	00.41-00.43, W-E, in N 65°	+ 7 - 7.5	600-650 ?	Steady, oc- casional weak flashing

Date Rev. No.	Object satellite	Time GMT	Brightness magnitude	Altitude km	Light change tumbling
5/23/65 5.431	1964-30 A	01.35-01.36, SE-NW in SW 80°	+ 2	255 km	Steady, slowly fading

Satellite is about to crash

Measurements of positions have been sent to SAO Institute!!

Newly observed satellites:

- 1) 60 Eta 1 = Transit 2 A
- 2) 1965-20 D = rocket of Kosmos 61, 62, 63
- 3) 1965-30 B
- 4) 65-30 C
- 5) rocket of Tiros 5 or rocket of Tiros 7 ?
- 6) 65-31 B

With best wishes

Horst Köhnke